

# Urban District of Failsworth.

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## REPORT

OF THE

# Medical Officer of Health

For the Year 1909.

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Area of District in Acres.....	1073
Population 1901 (Census) .....	14152
Population 1909 (estimated to middle of year).....	15400
General Death-rate per thousand Population .....	13·8
Infant Death-rate per thousand Births .....	94·8
Birth-rate per thousand Population .....	28·7

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FAILSWORTH :

J. B. FIELDING, PRINTER, CANAL BRIDGE.



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*To the Chairman and Members of the Health Committee of the  
Failsworth Urban District Council.*

GENTLEMEN,

I beg to have the honour of submitting for your consideration my Sixth Annual Report for the year ended December 31st, 1909.

In accordance with the instructions issued by the Local Government Board for the Medical Officer of Health's Annual Report, a brief description of the district is required, though the following facts may locally seem unnecessary.

The district of Failsworth is situate between the City of Manchester and the County Borough of Oldham. It is about two miles in length and three-fourths of a mile in breadth, and stands 354 feet above sea level at the Oldham end, rising by an easy gradient from the Manchester end, which is 286 feet above sea level. It is divided into two Wards (known as the Higher Ward and the Lower Ward) by the Rochdale Canal, which bisects the district. The road leading from Manchester is built upon on each side throughout its course, which is in one continuous line, and passes through the centre of the Township, forming its principal thoroughfare, with secondary roads known as Ashton Road East and West.

During the year a Local Government Board Inquiry was held with respect to the purchase by the Council of a plot of land behind York Street for purposes of a recreation ground, but was not sanctioned.

It has not been necessary to condemn any carcasses or parts of carcasses affected by tuberculosis.

During the year 50 dwelling-houses were erected in the Higher Ward.

Paving and sewerage has been proceeded with during the year, and the following streets and passages have been completed: Lomas Street, Norman Street, James Street, Timson Street, Beresford Street, Kershaw Street, Edale Street, Dovedale Street, and Brookdale Street; passages rear of 212 to 228, Oldham Road, between Adred Street and Lancaster Avenue, rear of 1 to 25, Old Road, 8 to 42, Oldham Road, and rear of Timson Street and Ashton Road East.

The water supply, which is chiefly obtained from Oldham, is from upland gathering grounds, and is of good quality and quantity. In the upper portions of the gathering area there is a considerable amount of peaty soil, and water from this area contains acid, which has a tendency to dissolve the lead in the service pipes. To remedy this, the water is collected from the land as quickly as possible, and is treated with carbonate of lime to neutralise the acid. This treatment appears to be effectual, as no complaints of lead poisoning have been received.

The district is well sewered by means of brick and pipe sewers, and the house drains are well trapped and jointed. The sewage is disposed of at the Council's Sewage Works. The effluent produced during the past year has been very satisfactory, and conforms to the standard required.

During the year the Council had under review several extensions of various Acts relating to Public Health, and it is intended to adopt a portion of these in the early part of next year.

I have the honour to be, Gentlemen,

Your obedient servant,

G. STRATH LESLIE, M.B.,

Medical Officer of Health.

# URBAN DISTRICT OF FAIRSWORTH.

## REPORT FOR 1909.

The population of the district is chiefly industrial, the main industries being cotton spinning and weaving, hat manufacturing, and electrical engineering.

### AREA AND POPULATION.

The area of the district is 1073 acres, and the nett area, exclusive of that covered by water, is 1064 acres.

The population at the last census was 14,152—7,443 in the Higher Ward, and 6,709 in the Lower Ward—showing an increase of 3,727 in both Wards during the preceding decade.

The number of inhabited houses at the census (1901) was 3,011. The number of factories and workshops was 71, and 14 churches, chapels, and schools. The average number of persons per house at the last census was 4·7, and the density of the population was equal to 13·3 per acre.

The increase of the population has been calculated on the number of new houses built at 4·7 per house.

The number of new houses built during the year was 50, so that the population may be safely estimated as being 15,400.

### TABULAR STATEMENT OF THE MORTALITY WITHIN THE DISTRICT ACCORDING TO DISEASES AND AGES, ETC.

**BIRTH-RATE.**—The total number of births registered during the year was 443—242 in the Higher Ward, and 201 in the Lower Ward. The males numbered 228 and the females 215, giving a birth-rate of 28·7 per thousand of the population. This is an increase of 55 over the previous year, and an increase of 22 above the average for the past ten years. Out of the total number of births 9 of these were illegitimate.

**DEATH-RATE.**—The total number of deaths registered was 213, being equal to a death-rate of 13·8. This, I might say, is the lowest on record for the past ten years. The average for the past ten years being 16·9.

Of the 213 deaths registered, 195 actually occurred in the district, the remaining 18 deaths took place in public institutions in Manchester, Oldham, and Halifax.

**INFANTILE DEATH-RATE**—The death-rate of children under the age of one year is often taken (except under exceptional circumstances) as a most important indication of the hygienic progress of the district, being almost the only mortality figure which may be taken as being absolutely correct, being based on the number of births registered during the year, and not on the estimated population. In consequence of this it is very gratifying to record a rate which is the lowest on record for the past ten years. The total deaths of infants under one year during 1909 was 43 (42 occurred in the district, and 1 in Prestwich Workhouse), giving a death-rate of 94·8 per thousand births, compared with the average for the past ten years (65 deaths, or an average rate of 157 per thousand births). The diseases which were responsible for the infantile deaths were: Diphtheria 2, Measles 1, Tubercular diseases 3, Premature birth 4, Convulsions 4, Bronchitis 6, Pneumonia 10, Suffocation 2, other causes 11.

TABLE A.

*Table of the ages at which deaths have occurred  
from the year 1900 to 1909.*

	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	Totals
Under 1 year .....	80	67	68	63	77	68	62	48	53	43	629
Between 1 and 5 years	31	55	27	35	38	20	41	29	32	35	343
„    5 „ 15 „	11	10	10	4	10	12	9	8	11	9	94
„    15 „ 25 „	14	11	12	10	7	7	5	6	13	5	90
„    25 „ 65 „	90	79	84	85	65	65	85	85	81	80	799
65 and upwards .....	53	35	42	43	47	52	51	43	53	41	460
	279	257	243	240	244	224	253	219	243	213	2415

The details of deaths under one year are next given in Table B, with the rate per thousand births.



TABLE B.

*Causes of death and rate per thousand births of children under one year.*

		1909		1903		1907	
		No.	Rate	No.	Rate	No.	Rate
Pulmonary diseases.	Bronchitis .....	6	30·1	7	28·3	6	37·5
	Pneumonia .....	10		3		10	
	Pleurisy .....	0		1		0	
Infectious diseases.	Measles .....	1	11·2	3	15·4	0	7·07
	Whooping cough .....	0		0		1	
	Influenza .....	0		0		1	
	Tubercular diseases ..	3		2		0	
	Diphtheria .....	2		0		0	
	Scarlet fever .....	0		0		0	
Diet diseases.	Erysipelas .....	0	Nil	1	7·7	1	2·3
	Diarrhœa .....	0		2		0	
Congenital diseases.	Enteritis .....	0	9·02	6	15·4	4	9·4
	Premature birth .....	4		6		4	
Other causes	Injuries .....	0	38·3	1	69·5	0	56·6
	Convulsions .....	4		7		6	
	Suffocation .....	2		0		0	
	Not classified .....	11		19		18	

The above Table shews an increase in pulmonary diseases, whilst there is a decrease in infectious diseases, diet diseases, congenital diseases, and from other causes.

TABLE C

*Deaths throughout the district in children under five years  
from infectious diseases.*

	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	Totals
Measles.....	1	6	1	17	7	...	12	2	8	5	59
Small-pox.....	...	...	...	...	...	...	...	...	...	...	...
Scarlet fever.....	2	2	1	1	..	...	...	...	1	...	7
Whoopingcough...	6	5	8	3	5	2	1	2	1	1	34
Diphtheria and membranous croup	1	1	2	2	2	...	3	3	3	4	21
Enteric fever .....	1	...	...	...	...	...	...	1	...	..	2
Epidemic influenza	3	...	3	3	1	...	1	1	...	...	12
Phthisis and other tubercular diseases	8	10	14	9	11	6	8	2	6	5	79
Erysipelas.....	...	...	...	...	...	...	...	1	1	...	2
Totals...	22	24	29	35	26	8	25	12	20	15	216

TABLE D.

Infantile death-rates from PULMONARY diseases per thousand births :

Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909
Rate	34·0	16·2	23·9	24·1	27·0	29·4	16·9	37·5	28·3	36·1

TABLE E.

Infantile death-rates from INFECTIOUS diseases per thousand births :

Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909
Rate	27·6	11·5	40·7	36·2	22·5	14·7	19·3	7·07	15·4	11·2

TABLE F.

Infantile death-rates from DIET diseases per thousand births :

Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909
Rate	10·6	25·4	9·5	19·3	20·2	14·7	24·2	2·3	7·7	Nil

**SCARLET FEVER.**—During the year 37 cases of scarlet fever were notified—21 in the Higher Ward, and 16 in the Lower Ward—being an increase of 10 over the previous year. Nineteen cases occurred in children between 1 and 5 years, 16 between 5 and 15 years, and 2 in persons above that age.

Five cases were removed to hospital—3 from the Higher Ward, and 2 from the Lower Ward.

No deaths occurred. The disease was most prevalent in the early part of the year.

**DIPHTHERIA AND MEMBRANOUS CROUP.** The total number of cases notified was 7. Four of these terminated fatally. All the cases occurred in children under 5 years. If regard be had to mortality alone, diphtheria is a more formidable disease than scarlet fever; for although during the past year there were 37 cases of the latter disease, no deaths occurred, while out of 7 cases of diphtheria 4 died.

It appears to be generally admitted that great difficulty is experienced in controlling the disease, owing to the frequency with which children and others may be found to harbour the germs of the disease in their throat without exhibiting symptoms of illness sufficient to attract the attention of the parent or school teacher. Such children are in many instances allowed to attend school, or to mingle with others in play, and may themselves freely spread the disease. There can be no doubt that diphtheria is far more prevalent than is indicated by the cases notified. Probably, if every mild case was known, they would annually rival in number those of scarlet fever. Many cases are diagnosable only by bacteriological examination of the throat, and the more frequent use of such examinations in recent years may account partly for the increase of notified cases, but it can scarcely explain the whole increase; otherwise one would expect to find the increase to be apparent in the number of cases notified, and not in the number of deaths. A glance at the number of cases of diphtheria notified during last year—all were under five years, and about one-half were among children of the school-age period. Notwithstanding the facilities given to medical practitioners in supplying swabs for bacteriological examinations free, I regret that this is not taken advantage of more fully; although, on the other hand, there has been a greater demand for anti-toxin serum, which is supplied gratuitously by the Council; and it is of some interest to state some recent investigations have shown that the administration of anti-toxin is effective in preventing infection by the disease, although too feeble to be

of much use in curing an advanced infected case. The efficacy of anti-toxin treatment is its use on the first suspicion of diphtheria, without waiting for the full development of the disease, or for the result of the bacteriological examination. The anti-toxin will do no harm should the patient not be suffering from diphtheria.

ENTERIC FEVER. — Five cases of enteric fever were notified during the year, being an increase of 2 over the previous year. Three occurred in the Higher Ward, and 2 in the Lower Ward. One case from the Lower Ward was removed to hospital. Two of the cases terminated fatally.

CONTINUED FEVER. — No cases were notified.

SMALL-POX. — No cases were notified.

MEASLES. — Five deaths occurred from measles, all in children under five years. Three occurred in the Higher Ward, and 2 in the Lower Ward.

DIARRHŒA AND ENTERITIS. — There were 3 deaths from diarrhœa—1 in the Higher Ward, and 2 in the Lower Ward. Two occurred in children under 5 years, and 1 in a person between 25 and 65 years.

WHOOPING COUGH. — Two deaths from whooping cough were registered—1 in each Ward. One occurred in a child under 5 years, and 1 under 15 years.

ERYSIPELAS. — Six cases were notified, but no deaths occurred. Two cases occurred in the Higher Ward, and 4 in the Lower Ward.

PUERPERAL FEVER. — Five cases of puerperal fever were notified, resulting in 3 deaths. In each case the County Medical Officer of Health was notified, and all precautions taken as to disinfection carried out. Where a midwife has been in attendance, her clothing, &c., have been thoroughly disinfected.

METHODS OF CONTROL OF TUBERCULOSIS. — There is no compulsory or voluntary system of notification of tuberculosis. Where deaths have occurred from this disease, disinfection of the premises has been carried out. The Public Health (Tuberculosis) Regulations, which compels the notification of all poor-law patients, should prove beneficial in locating and dealing with this disease.

#### MEASURES TAKEN TO PREVENT THE SPREAD OF INFECTIOUS DISEASE.

In cases of infectious disease, special visits of inspection are made; the premises where the outbreak occurs being visited, and a special investigation made as to the sanitary conditions and surroundings.

Every enquiry is made with a view to ascertain the origin of the outbreak. If, after due enquiry, it is found that the patients cannot be properly isolated in their own homes, they are at once removed to the Isolation Hospital—the Westhulme and Strinesdale Hospitals of the Oldham Corporation being by arrangement available for this purpose.

**DISINFECTION OF PREMISES.** Disinfection of the rooms after infectious disease is generally carried out by burning sulphur or formalin, and afterwards the walls, ceilings, woodwork, and clothing are sprayed with a solution of formalin.

Number of houses disinfected.	52
“ rooms “	63

Where cases of enteric fever have occurred, the discharges from the infected patients are collected in a special vessel, and after being disinfected are buried.

In cases treated at home, disinfectants, in the form of Izal fluid and soap, are supplied free of charge, and used under the directions of the medical attendant.

#### NEW BUILDINGS.

The following Table shows the number of new buildings erected during the last ten years :—

<i>Number and description of new buildings erected.</i>					
Year	Dwelling Houses, Shops, etc.	Warehouses, Mills, etc., and Alterations	Churches, Chapels, and Schools, and Alterations	Public Houses	Totals
1900	132	2	..	2	136
1901	75	1	..	..	76
1902	67	3	..	..	70
1903	55	1	1	..	57
1904	39	..	2	..	41
1905	24	2	..	..	26
1906	23	1	..	..	24
1907	18	1	..	..	19
1908	83	1	1	..	85
1909	50	..	3	..	53

## WORK OF THE HEALTH DEPARTMENT.

The improvements carried out during the past year consist for the most part of the conversions of pail and privy closets to the water carriage system, and abolition of ashpits and the provision of dust-boxes.

**OVERCROWDING.**—There were three cases of overcrowding reported to the Council during the past year. Notices were served in each case, and it was necessary to take legal proceeding in one case before the nuisance was abated.

**HOUSE DRAINAGE.** 13 house drains were taken up and new drains laid, 30 have been repaired and 4 disconnected from water-course and connected to Council's sewer. The drains in every case are tested previous to being covered in.

**DAIRIES, COWSHEDS, AND MILKSHOPS.**—There are 36 persons registered as purveyor's of milk, or cowkeepers, within the district. Of these, 18 are cowkeepers, 12 of whom reside within the district and 6 outside. There are also 17 milkshops and 1 dairy. The cowsheds are in a fairly satisfactory condition. These have been visited frequently, and in one case it was necessary to draw the occupier's attention to the dirty condition of the walls. The walls, &c., were afterwards cleaned and limewashed.

**MILK SUPPLY.**—The milk produced or imported within the district is of fair quality, and it has not been necessary to take any action with regard to same. The milkshops have been inspected at frequent intervals, and instructions have been given as to the necessary precautions being taken to minimise the danger of contamination.

In another part of the report particulars are given of samples of food taken by the County Inspector under the Sale of Food and Drugs Act.

It has not been necessary to condemn any carcasses or parts of carcasses for tuberculosis.

**SLAUGHTER HOUSES.**—There are 9 slaughter houses all of which are licensed. These have been visited at frequent intervals and were found to be in a satisfactory condition, with one exception, and it was necessary to order the occupier to limewash the walls, &c., which was complied with.

**HOUSING ACCOMMODATION.**—The class of dwelling-houses in the district consist chiefly of four, five and six-roomed houses, and are for the most part substantially built, with separate yard accommodation. In the erection of new property the Council's bye-laws are strictly adhered to with regard to the height of rooms, yard space, and sanitary accommodation. In all new property, water closets and dust-boxes are insisted

upon. Whilst in many of the old property ashpits and privy middens are being replaced with dust-boxes, and efforts are also being made to displace the pail and privy closets with water closets. It has not been necessary to take action under the Housing of the Working Classes Act during the year.

During the latter part of the year complaints were made with respect to the pollution of the Moston Brook. It was ascertained that a quantity of oil gas tar from Hollinwood Gas Works had found its way into the stream, and the Oldham Corporation had their attention drawn to the matter.

**OFFENSIVE TRADES.**—There are comparatively few of these premises in the district. These consist of a tannery, blood-boiling, and a tripe-dresser. The premises on inspection have been found to be kept in a satisfactory manner. During the year complaints were received as to the method used in carting refuse from the tannery. The owners attention was drawn to the matter, who promised to remedy same in the future.

**CANAL BOATS.**—There are portions of two canals passing through the district, namely :—The Rochdale Canal and a portion of the Hollinwood branch of the Manchester and Ashton-under-Lyne Canal.

Failsworth not being a registration authority the boats merely pass through the district. A number of boats were inspected, and no contraventions of the Acts have been met with.

**HOUSES LET IN LODGINGS.**—There are no houses let in lodgings in the district.

**ELEMENTARY DAY SCHOOLS.**—The sanitary accommodation of the Elementary Schools in the district is (with two exceptions) on the water-carriage system. The water supply in every case is satisfactory, each school being provided with one or more taps fixed in convenient positions, the supply being obtained from the Oldham Corporation. During the year the County Education Authority opened a New School, which is fitted with all modern requirements. All the schools in the district were thoroughly disinfected during the Whitsuntide vacation, the walls, ceilings, woodwork, forms, desks and floors, being sprayed with a solution of formalin and Izal fluid.

The medical inspection of school children is undertaken by the County Education Authority, and Dr. Butterworth, the Schools Medical Superintendent, has kindly furnished some particulars relative thereto, which includes figures for the whole of the Elementary Education Area



No. 35, comprising the Urban Districts of Audenshaw, Denton, Droylsden, Failsworth, Hurst, Lees, and the Rural District of Limehurst. The figures are not got out independently for each Sanitary Area. These particulars will be found in the Supplement printed at the end of this report.

**SMOKE NUISANCES.** — During the year 95 observations were taken of various chimneys in the district, each observation being of 30 minutes' duration. Out of this number 9 were found to have exceeded the limit of black smoke, which is now in force within the district : —

Where 1 or 2 boilers are working, black smoke not to exceed 2 minutes.

“	3	“	“	“	“	3	“
“	4 or more	“	“	“	“	4	“

The following table shews the number and results of observations taken :—

		1 or 2 Boilers Working.	3 Boilers Working.	4 or more Boilers Working
Black smoke emitted				
not exceeding 1 minute	in 13 cases	in 8 cases	in 1 case	
“ “ 2 minutes	“ 21 “	“ 13 “	“ 10 cases	
“ “ 3 “	“ 3 “	“ 11 “	“ 8 “	
“ “ 4 “	“ — “	“ 2 “	“ 1 “	
“ “ 5 “	“ — “	“ — “	“ 1 “	
“ “ 6 “	“ — “	“ — “	“ 1 “	
“ “ 7 “	“ — “	“ 1 “	“ 1 “	
TOTAL...		37	35	23

Six notices of abatement were served, and legal proceedings were taken against the Ivy Mill Company Limited, who were ordered to pay 10/- and costs.

**FIRING OF DWELLING-HOUSE CHIMNEYS.**—Seven cases of chimney firing were brought before the notice of the Council. Of these 6 were cautioned, the remaining one was summoned before the magistrates and fined the cost of the summons.

During the year the Council had under consideration the nuisance caused by the firing of dwelling-house chimneys, and notices were posted throughout the district calling attention to the matter, and that future offenders would be severely dealt with.



## FOOD AND DRUGS.

SUPERINTENDENT KEYS, OF THE COUNTY POLICE, has kindly furnished the following particulars and results obtained of samples of food, &c., purchased by the COUNTY INSPECTORS within this district, and submitted for analysis to the County Analyst.

NUMBER TAKEN.	NATURE OF ARTICLE.	GENUINE.	ADULTERATED
5	Milk .....	5	..
1	Preserved Pears .....	1	..
1	Magnesia .....	1	..
1	Lard .....	1	..
1	White Pepper .....	1	..
4	Scotch Whisky .....	4	..
6	Butter .....	6	..
1	Irish Whisky .....	1	..
6	Margarine .....	5	1
26		25	1

One sample of Margarine was found to be below the standard. Legal proceedings were withdrawn on payment of £5 5s. costs.

## REPORT OF THE INSPECTOR OF NUISANCES.

Statistics with respect to the abatement of nuisances, etc., submitted by Mr. H. Wharton, the Inspector of Nuisances.

19 pail closets abolished, 20 water-closets provided.

7 Privy closets abolished, 8 water-closets provided.

4 Additional water-closets provided.

5 latrine closets converted to fresh-water closets.

Water-closet accommodation in connection with one factory re-arranged

30 water-closets repaired.

13 house drains reconstructed.

30 house drains repaired.

Drains and down spouts repaired at one factory.

1 cellar drain relaid.

4 house drains disconnected from water-course and connected to Council's sewer.

20 ashpits abolished, 34 dust-boxes provided.

4 privy middens abolished, 8 dust-boxes provided.

13 new dust-boxes provided.

2 additional dust-boxes provided.

31 dust-boxes repaired.

53 pail closets repaired.

21 Ashpits repaired.

24 privy closets repaired.

12 privy middens repaired.

2 new urinals provided.

2 nuisances abated arising from offensive accumulations.

7 nuisances abated arising from accumulation of water.

15 nuisances abated arising from defective eaves troughs, and spouts.

19 slop-pipes lengthened or repaired.

6 nuisances abated arising from swine being improperly kept.

2 nuisances abated arising from overcrowding.

Walls and ceiling in connection with bakehouse repaired and limewashed.

1 cowshed limewashed.

1 slaughter house limewashed.

Secondary means of access for cleansing purposes provided to 8 houses.

### NUMBER OF LEGAL NOTICES SERVED.

69 legal notices under the Public Health Acts were served requiring the abatement of nuisances.

## CLEANSING DEPARTMENT.

REMOVAL OF HOUSE REFUSE. The removal of house refuse continues to be carried out by the Council with their own manual and team labour, and is disposed of at various tips within the district. The contents of the pail closets are collected by the workmen, and after being mixed with dry ashes are disposed of at the various tips within the district. The gradual increase in the number of water-closets and dust-boxes, and the decrease of the number of pail and privy closets, together with the more frequent collections of ashes, must have a beneficial effect upon the sanitary surroundings of the inhabitants. A glance at the particulars as to removal of nightsoil and ashes will show that last year was a record year.

*Table shewing the number and respective kinds of sanitary conveniences within the district at December 31st, 1909.*

CLOSETS	Houses and Shops	Mills and Workshops	Churches, Chapels, and Schools	Totals
Number of cesspool closets	13	11	...	24
„ privy „	348	2	2	352
„ pail „	1030	172	37	1248
„ water „	1879	66	6	1941
„ waste water „	207	...	...	207
„ latrine „	...	151	41	192
	3486	402	86	3964
ASHPITS, ETC.				
Number of cesspools	11	2	...	13
„ privy middens	218	1	1	220
„ ordinary ashpits	556	1	2	559
„ dust boxes	1913	..	6	1919
	2798	4	9	2711

\* represents the number of seats.

Number of houses and shops in the district	3580
„ churches, chapels, and schools	19
„ factories	54
„ workshops	75

Particulars showing number of receptacles emptied during the year ended December 31st, 1909, compared with similar period ended December 31st, 1908.

*Table showing number of receptacles emptied monthly.*

	No. of Weeks.	Ashpits.	Privy Middens.	Dust Boxes.	Loads.	Pails.	Cess-pools	Barrels.
January.....	4	796	232	4582	154	4808	5	75
February .....	4	1597	431	4591	179	4938	1	76
March .....	4	1748	438	4827	193	4844	12	73
April .....	4	1642	551	5385	195	4792	4	66
May .....	4	1782	582	5693	172	4763	3	68
June .....	4	1320	363	5099	161	4619	3	67
July .....	5	2164	594	7013	212	6010	6	87
August .....	4	1848	568	5556	151	4900	...	68
September ...	5	1253	417	5936	164	6070	6	89
October.....	4	1460	454	5784	168	4968	7	73
November ...	4	1588	511	5322	178	4955	...	68
December ...	6	1207	418	8329	263	7409	6	107
	52	18405	5559	68117	2190	63076	53	917

*Particulars as to Day Work and Night Work.*

1909	Ashpits	Privy Middens	Dust Boxes	Loads	Pails	Cesspools	Barrels
Day work.....	10172	3080	68117	1703	36708	34	536
Night work ...	8233	2479	...	487	26368	19	381
	18405	5559	68117	2190	63076	53	917
1908							
Day work.....	5551	1877	67573	1345½	32526	13	479
Night work ...	6229	2017	...	1205½	33097	16	477
	11780	3894	67573	2551	65623	29	956

The contents of the ashpits, privy middens, and dust boxes were disposed of at the undermentioned tips, the number of loads being as follows :

	Andrew's	York St	Mill Lane	Greaves'	Hastings	White head's	Various	Totals
1909	1939 $\frac{1}{2}$	12	168 $\frac{1}{2}$	61	...	...	9	2190
1908	1881	422 $\frac{1}{2}$	156 $\frac{1}{2}$	65	15	3	8	2551

The contents of the pails and cesspools were taken to the undermentioned farms and tips, the number of barrels being as follows :-

	Andrew's	Hastings	Fielding's	Clayton Bridge	Various	Totals
1909	915	...	...	2	...	917
1908	956	...	...	...	...	956



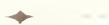
# SPECIAL REPORT

ON THE

**Local Administration of the Factory and Workshops Acts,**

FOR THE

**Year Ending 31st December, 1909.**



There are 54 textile and non-textile factories and 75 workshops within the district.

The sanitary arrangements of the factories and workshops are principally on the pail and water-carriage system.

Three complaints were received from H.M. Inspector of Factories as to sanitary arrangements in connection with three mills. In each case the owners' attention was drawn to the matter, and the defects were remedied.

At two factories, four additional water closets were provided, and in another case the drains were cleared and new downspouts were provided.

One complaint was also received as to the dirty condition of walls and defective eaves troughs in connection with one bakehouse. The occupier's attention was drawn to the matter, and the defects were remedied.

Two notices were received from H.M. Inspector of Factories as to the occupation of premises as workshops.

There are three laundries in the district. In one case the premises are fitted up with all modern requirements ; in the remaining two, business is only carried on in a small way. Inspections have been frequently made, and everything was found satisfactory.

**I. — Inspection of Factories, Workshops, and Workplaces,**  
Including Inspections made by Sanitary Inspectors or Inspectors of Nuisances.

PREMISES	Number of		
	Inspections	Written Notices	Prosecutions
Factories (including Factory Laundries) .....	60	..	..
Workshops (including Workshop Laundries) .....	73	..	..
Workplaces (other than Outworkers' premises included in Part 3 of this Report).....	2	..	..
Total .....	135	..	..

**II. — Defects found in Factories, Workshops, and Workplaces.**

PARTICULARS	Number of Defects		Referr'd to H.M. Inspector	Number of Prosecu- tions
	Found	Remedied		
<i>Nuisances under the Public Health Acts :—*</i>				
Want of cleanliness .....	...	...	...	..
Want of ventilation .....	...	...	...	...
Overcrowding .....	..	...	...	...
Want of drainage of floors .....	...	...	...	..
Other nuisances .....	...	...	...	...
Sanitary accommodation	insufficient .....	...	...	...
	unsuitable or defective .....	3	3	...
	not separate for sexes.....	...	...	...
Section 22 of P.H.A. (A) Act, 1890, is in force. The standard of sufficiency of sanitary accommodation enforced is that of the Home Office order of 1903.				
<i>Offences under the Factory and Workshop Act :—</i>				
Illegal occupation of underground bakehouse (S. 101)...	...	..	...	...
Breach of special sanitary requirements for bakehouses (SS. 97 to 100) .....	1	1	...	...
Other offences (excluding offences relating to outwork which are included in Part 3 of this Report) .....	..	..	..	...
Total.....	4	4	...	...

\* Including those specified in Sections 2, 3, 7, and 8 of the Factory and Workshop Act as remediable under the Public Health Acts.



### III.—Home Work.

OUTWORKERS LISTS, SECTION 167.																				
NATURE OF WORK.	Lists received from Employers.				Addresses of Outworkers.		Notices served on Occupiers as to keeping or sending lists.		Prosecutions.		Number of Inspections of Outworkers premises.	OUTWORK IN UNWHOLESALE PREMISES, SECTION 168.								
	Twice in the year.		Once in the year.		Re-ceived from other Councils (8) (9)		Failing to keep or permit inspection of lists.		In- Notices served on premises.			Orders made (S. 166, 167, 168).								
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
Wearing Apparel																				
(1) making, &c.	4	4	4	31				1	14											
(2) cleaning and washing																				
Lace, lace curtains and nets.																				
Artificial flowers																				
Nets, other than wire nets																				
Tents																				
Sacks																				
Furniture and Upholstery																				
Fur pulling																				
Feather sorting																				
Umbrellas, &c.																				
Carding, &c., of buttons, &c.																				
Paper bags and boxes																				
Basket making																				
Brush making																				
Racquet and tennis balls																				
Stuffed toys.																				
File making																				
Electro-plate																				
Cables and chains																				
Anchor and grapnels																				
Cart gear																				
Locks, latches, and keys																				
Pea picking																				
Total	4	4	4	31				1	14										13	

#### IV. -- Registered Workshops.

WORKSHOPS ON THE REGISTER (S. 131) AT THE END OF THE YEAR.	
(1)	Number (2)
Workshops	59
Bakehouses	16
Total number of workshops on Register	
	75

Important Classes of workshops, such as workshop bakehouses, may be enumerated here.

#### V. -- Other Matters.

CLASS (1)	Number (2)
Matters notified to H.M. Inspector of Factories :—	
Failure to affix Abstract of Factory and Workshop Act (S. 133).	
Action taken in matters referred by H.M. Inspector as remediable under the Public Health Acts, but not under the Factory and Workshop Act (S. 5) { Notified by H.M. Inspector. Reports (of action taken) sent to H.M. Inspector ....	4
Matters where owner's attention was drawn to defects but no legal notices were served	4
Underground bakehouses (S. 101) :—	
Certificates granted during the year	..
In use at the end of the year	..

APPENDIX

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VITAL STATISTICS.

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TABLES I. TO V.

TABLE I.—*Vital Statistics of whole District during 1909 and previous years.*

YEAR.	Population estimated to middle of each year.	BIRTHS.		TOTAL DEATHS REGISTERED IN THE DISTRICT.				Total Deaths in Public Institutions in the District.	Deaths of Non-residents registered in Public Institutions in the District.	Deaths of Residents registered in Public Institutions beyond the District.	NETT DEATHS AT ALL AGES BELONGING TO THE DISTRICT.	
		Number	Rate	Under 1 year of Age.		At all Ages.					Number	Rate
				Number	Rate per 1,000 Births registered.	Number	* Rate					
1899	13,750	406	29.5	72	177	240	17.4	...	...	15	255	18.5
1900	14,000	470	33.5	80	170	279	12.8	...	...	12	291	20.7
1901	14,152	432	30.5	67	153	244	17.2	...	...	14	257	18.1
1902	14,250	417	29.2	68	163	227	15.9	...	...	16	243	17.0
1903	14,500	414	28.5	63	152	223	15.3	...	...	17	240	16.5
1904	14,700	444	30.2	77	174	234	15.9	...	...	10	244	16.5
1905	14,800	408	27.5	68	167	201	13.5	...	...	23	224	15.1
1906	14,900	413	27.7	62	150	239	16.0	...	...	14	253	16.9
1907	15,000	424	28.2	48	113	205	13.6	...	...	14	219	14.6
1908	15,100	388	25.3	53	136.5	222	14.7	...	..	21	243	16.0
Averages for years 1899-1908	14,515	421	29.0	65	157	231	15.2	...	...	15	246	16.9
1909	15,400	443	28.7	42	94.8	195	12.6	...	...	18	213	13.8

Rates in Columns 4, 8, and 13 calculated per 1,000 of estimated population.

Area of District in Acres (exclusive of area covered by water), 1,064

Number of inhabited houses, at census of 1901, 3,011

Total population at all ages, at census of 1901, 14,152

Average number of persons per house, " " 4.7

I. Institutions within the District receiving sick and infirm persons from outside the District.	II. Institutions outside the District receiv- ing sick and infirm persons from the District.	III. Other Institutions, the deaths in which have been distributed among the several localities in the District
None.	Prestwich Union Workhouse and Hospital. Manchester, Oldham, and Halifax Infirmaries.	

Is the Union Workhouse within the District? No.

TABLE II.—*Vital Statistics of separate Localities in 1909 and previous years.*

NAMES OF LOCALITIES	1.—HIGHER AND LOWER WARDS (INCUSIAP)				2.—HIGHER WARD				3.—LOWER WARD			
	Population estimated to middle of each year	Births registered	Deaths at all ages	Deaths under 1 year	Population estimated to middle of each year	Births registered	Deaths at all ages	Deaths under 1 year	Population estimated to middle of each year	Births registered	Deaths at all ages	Deaths under 1 year
YEAR	a.	b.	c.	d.	a.	b.	c.	d.	a.	b.	c.	d.
1899	13,750	406	255	72	...	...	...	...	...	...	...	...
1900	14,000	470	291	80	...	...	...	...	...	...	...	...
1901	14,152	432	257	67	7,443	225	130	34	6,709	207	114	33
1902	14,250	417	243	68	7,493	220	123	42	6,757	197	104	26
1903	14,500	414	240	63	7,629	227	143	39	6,871	187	97	24
1904	14,700	444	244	77	7,745	233	117	36	6,955	211	127	41
1905	14,800	408	224	68	7,836	210	115	32	6,964	198	109	36
1906	14,900	413	253	62	7,892	223	138	33	7,008	190	115	29
1907	15,000	424	219	48	7,922	240	132	26	6,945	184	87	22
1908	15,100	388	243	53	8,099	201	130	30	7,001	187	113	23
Averages of years 1899 to 1908	14,515	421	246	65	7,757	222	128	34	6,901	195	108	29
1909	15,400	443	213	43	8,343	242	98	24	7,057	201	115	19

Separate Statistics for the two Wards not made previous to 1901.

TABLE III.—*Cases of Infectious Disease notified during the Year 1900.*

NOTIFIABLE DISEASE.	CASES NOTIFIED IN WHOLE DISTRICT.										TOTAL CASES NOTIFIED IN EACH LOCALITY	NO. OF CASES REMOVED TO HOSPITAL FROM EACH LOCALITY	Total Cases Removed to Hospital
	At all Ages	AT AGES - YEARS.						65 and up- wards	Higher Ward	Lower Ward			
		Under 1.	1 to 5.	5 to 15.	15 to 25.	25 to 65.	65 and up- wards						
Small-pox.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Cholera.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Diphtheria (including Membranous croup)...	7	2	5	...	...	...	...	...	...	3	4	...	...
Erysipelas .....	6	..	...	...	1	5	...	...	...	2	4	...	...
Scarlet fever .....	37	...	19	16	1	1	...	...	...	21	16	3	2
Typhus fever .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Enteric fever .....	5	...	...	...	1	4	...	...	...	2	3	...	1
Relapsing fever .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Continued fever .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Puerperal fever .....	5	...	...	...	1	4	...	...	...	2	3	...	...
Plague .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals .....	60	2	24	16	4	14	...	...	...	30	30	3	3

ISOLATION HOSPITALS :—Westhulme Fever Hospital, Oldham. Small-pox Hospital, Strinesdale, Oldham.

One case of Enteric Fever, and 5 cases of Scarlet Fever, were removed to Westhulme Fever Hospital, Oldham.

TOTAL AVAILABLE BEDS :— Number is not fixed.

NUMBER OF DISEASES THAT CAN BE CONCURRENTLY TREATED :—Scarlet Fever, Enteric Fever, and Small-pox.

TABLE IV.

*Causes of, and Ages at, Death during Year 1909.*

CAUSES OF DEATH	DEATHS IN OR BELONGING TO WHOLE DISTRICT AT SUBJOINED AGES							DEATHS IN OR BELONGING TO LOCALITIES AT ALL AGES	
	All ages	Under 1 year	1 and under 5	5 and under 15	15 and under 25	25 and under 65	65 and upwards	Higher Ward	Lower Ward
Small-pox .....	...	...	...	...	...	...	...	...	...
Measles .....	5	1	4	...	...	...	...	3	2
Scarlet Fever .....	...	...	...	...	...	...	...	...	...
Whooping-cough .....	2	...	1	1	...	...	...	1	1
Diphtheria and Membranous Croup ...	4	2	2	...	...	...	...	1	3
Croup .....	...	...	...	...	...	...	...	...	...
Fever { Typhus .....	...	...	...	...	...	...	...	...	...
Enteric .....	2	...	...	...	...	2	...	1	1
Other continued .....	...	...	...	...	...	...	...	...	...
Epidemic Influenza .....	4	...	...	1	...	2	1	...	4
Cholera.....	...	...	...	...	...	...	...	...	...
Plague .....	...	...	...	...	...	...	...	...	...
Diarrhœa.....	2	...	1	...	...	1	...	...	2
Enteritis .....	1	..	1	...	...	...	...	1	...
Puerperal Fever .....	3	...	...	...	...	3	...	1	2
Erysipelas .....	...	...	...	...	...	...	...	...	...
Gastritis .....	...	...	...	...	...	...	...	...	...
Phthisis (Pulmonary Tuberculosis).....	18	2	1	2	3	8	2	8	10
Other Tubercular diseases .....	4	1	1	2	...	...	...	2	2
Cancer, malignant disease.....	6	...	...	...	...	5	1	5	1
Bronchitis .....	29	6	5	...	...	12	6	12	17
Pneumonia .....	32	10	12	1	1	6	2	19	13
Pleurisy .....	1	...	...	...	...	1	...	1	...
Other diseases of Respiratory Organs..	...	...	...	...	...	...	...	...	...
Alcoholism—Cirrhosis of Liver .....	1	...	...	...	...	..	1	1	...
Venereal Diseases .....	...	...	...	...	...	...	...	...	...
Premature Birth.....	4	4	...	...	...	..	...	3	1
Diseases and Accidents of Parturition..	1	...	...	...	...	1	...	...	1
Heart Diseases .....	10	...	1	...	...	6	3	3	7
Accidents.....	5	2	1	...	1	1	...	1	4
Suicides .....	...	...	...	...	...	...	...	...	...
Convulsions .....	4	4	...	..	...	...	...	3	1
Rickets.....	...	...	...	...	...	...	...	...	...
Meningitis .....	...	...	...	...	...	...	...	...	...
All other causes .....	75	11	5	2	...	32	25	32	43
All causes.....	213	43	35	9	5	80	41	98	115



TABLE V.

*Infantile Mortality during the Year 1900.**Deaths from stated Causes in Weeks and Months under One Year of Age.*

CAUSE OF DEATH.		Under 1 Week	1-2 Weeks	2-3 Weeks	3-4 Weeks	Total under 1 Month	1-2 Months	2-3 Months	3-4 Months	4-5 Months	5-6 Months	6-7 Months	7-8 Months	8-9 Months	9-10 Months	10-11 Months	11-12 Months	Total Deaths under 1 Year
All Causes	Certified	10	2			12	1	2	1	2	2	7	5	4		2	3	41
	Uncertified			2		2												2
Diarrhæal Common Infectious Diseases	Small-pox																	
	Chicken-pox																	
	Measles													1				1
	Scarlet Fever																	
	Diphtheria: Croup											2						2
	Whooping Cough																	
	Diarrhœa, all forms																	
	Enteritis, Muco-enteritis, Gastro-enteritis																	
	Gastritis, Gastro-intestinal Catarrh																	
	Premature Birth	4					4											
Wasting Diseases	Congenital Defects																	
	Injury at Birth																	
	Want of Breast-milk, Starvation																	
	Atrophy, Debility, Marasmus																	
Tuberculous Diseases	Tuberculous Meningitis																	
	Tuberculous Peritonitis: Tabes Mesenterica																	
	Other Tuberculous Diseases																	
											1					1	1	3
Other Causes	Erysipelas																	
	Syphilis																	
	Rickets																	
	Meningitis (not Tuberculous)																	
	Convulsions	2				2						2						4
	Bronchitis			1		1	1	1			1		1	1				6
	Laryngitis																	
	Pneumonia							1				1	4	2		1	1	10
	Suffocation, overlying	2				2												2
	Other Causes	2		3		5			1	2		2					1	11
Pleurisy																		
		10	4			14	1	2	1	2	2	7	5	4		2	3	43

District of Failsworth.

Population, estimated to middle of 1900, 15,400.

Births in the year {legitimate, 434 } 443. Deaths in the year of {legitimate infants, 40 } 43  
 {illegitimate, 9 } {illegitimate " 3 }

Deaths from all Causes at all Ages, 213.



# SUPPLEMENT.

## Medical Inspection of Children

IN

## Public Elementary Schools.

Particulars furnished by

**Dr. BUTTERWORTH,**

Medical Superintendent of Schools,

relative to the Elementary Education District No. 35 \*

of the Administrative County of Lancaster.

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\* District No. 35 includes the Urban Districts of Audenshaw, Denton, Droylsden, **FAILSWORTH**, Hurst, Lees, and the Rural District of Limehurst.

**Dr. BUTTERWORTH'S Report on the Medical Inspection of School Children. District 35 of the Administrative County of Lancaster.**

No. of Schools, 38. No. of Departments, 64.

**BOYS.**

				ADMISSIONS.			LEAVERS.		
				Age 3	Age 4	Age 5	Age 12	Age 13	Age 14
No. Examined ...				188	389	604	204	193	17
Head	Feeble-minded	...	...	...	...	...	4	5	...
	Under-nourished	...	...	...	5	11	4	1	5.8
	Stammerers	...	...	...	...	1	4	...	5.8
	Pediculosis	...	...	5	1	9	...	...	...
	Ringworm	...	...	1	17	13	4	...	...
Body	Pediculosis	...	...	5	2	4	9	...	5.8
	Scabies	...	...	...	...	1	...	...	...
	Ringworm	...	...	...	2	3	...	...	...
	Impetigo	...	...	1	5	3	...	1	...
	Enlarged Tonsils	...	...	21	38	51	49	72	5.8
Eye Diseases.	Adenoids	...	...	...	17	48	73	46	5.8
	Enlarged Glands	...	...	...	...	4	...	...	...
	Very bad Teeth	...	...	1	23	49	...	1	...
	Otitis Media	...	...	15	5	3	9	5	5.8
	Wearing Spectacles	...	...	...	2	1	24	2	5.8
	Squint	...	...	1	5	19	24	15	5.8
	Conjunctivitis	...	...	...	...	6	4	5	...
	Blepharitis	...	...	5	2	9	4	5	...
	Keratitis	...	...	...	...	1	9	...	...
	Corneal Opacities	...	...	...	5	1	...	15	...
	Corneal Ulcer	...	...	...	...	...	...	...	...
Heart	Valvular	...	...	...	7	11	4	2	5.8
	Anæmia	...	...	21	17	49	58	46	5.8
	Bronchitis	...	...	15	38	23	...	5	...
	Chorea	...	...	...	...	...	...	...	...
	Epilepsy	...	...	...	...	...	...	5	...
Tubercu- losis.	Infantile Paralysis	...	...	...	...	3	...	5	...
	Glandular	...	...	...	...	...	4	...	...
	Spine	...	...	...	...	1	...	...	...
	Hip	...	...	...	...	...	...	1	...
	Pulmonary	...	...	1	7	13	4	1	11.7
	Skin	...	...	...	...	...	...	...	...
	Rickets	...	...	17.5	14.9	10.5	1.9	2	5.8
	Scoliosis	...	...	...	...	1	...	...	...

There were 26 children suffering from other diseases.

## GIRLS.

		ADMISSIONS.			LEAVERS.		
		Age 3	Age 4	Age 5	Age 12	Age 13	Age 14
No. Examined		184	328	567	208	108	10
Head	Feeble-minded	...	...	...	...	...	...
	Under-nourished	...	9	12	33	15	...
	Stammerers	...	...	...	4	...	...
	Pediculosis	54	88	155	187	176	40
	Ringworm	...	3	...	...	...	...
Body	Pediculosis	...	...	12	14	1	10
	Scabies	...	...	...	...	...	...
	Ringworm	...	...	...	...	...	...
	Impetigo	...	...	1	...	...	...
	Enlarged Tonsils	5	21	59	72	6	20
Eye Diseases.	Adenoids	5	12	22	57	3	...
	Enlarged Glands	...	...	1	...	...	...
	Very bad Teeth	1	6	29	...	1	...
	Otitis Media	5	12	5	28	1	...
	Wearing Spectacles	...	...	5	38	7	...
	Squint	1	9	26	14	3	...
	Conjunctivitis	...	6	5	4	5	...
	Blepharitis	1	6	12	9	5	...
	Keratitis	...	...	...	...	5	...
	Corneal Opacities	...	6	1	...	...	...
Heart	Corneal Ulcer	...	...	...	...	...	...
	Valvular	1	9	15	4	15	10
	Anæmia	38	57	114	105	106	40
	Bronchitis	21	15	15	...	5	...
	Chorea	...	...	...	...	...	...
Tubercu- losis.	Epilepsy	...	...	...	...	...	...
	Infantile Paralysis	...	...	1	...	...	...
	Glandular	...	...	...	...	...	...
	Spine	...	...	...	...	...	10
	Hip	...	...	...	...	5	...
	Pulmonary	...	15	28	52	5	20
	Skin	...	...	...	...	...	...
	Rickets	211	103	81	4	5	10
	Scoliosis	...	...	...	4	1	...

There were 10 children suffering from other diseases.

## SPECIAL CASES.

				Boys.	Girls.
No. Examined ... ..				632	679
No. recommended for treatment				235	235
Head	{	Feeble-minded ... ..		1	...
		Under-nourished ... ..		19	35
		Stammerers ... ..		3	3
		Pediculosis ... ..		4	13 <sup>2</sup>
		Ringworm ... ..		12	4
Body	{	Pediculosis ... ..		3	17
		Scabies ... ..		...	1
		Ringworm ... ..		2	1
		Impetigo... ..		3	3
		Enlarged Tonsils ... ..		50	45
Eye Diseases.	{	Adenoids ... ..		83	73
		Enlarged Glands ... ..		...	1
		Very bad Teeth... ..		26	15
		Otitis Media ... ..		12	19
		Wearing Spectacles ... ..		29	40
		Squint ... ..		47	43
		Conjunctivitis ... ..		7	4
		Blepharitis ... ..		15	20
		Keratitis... ..		3	7
		Corneal Opacities ... ..		8	14
		Corneal Ulcer ... ..		2	...
Heart	{	Valvular .. ..		5	6
		Anæmia ... ..		35	67
		Bronchitis ... ..		2	6
		Chorea ... ..		1	...
		Epilepsy ... ..		...	1
Tubercu- losis.	{	Infantile Paralysis ... ..		9	2
		Glandular ... ..		1	1
		Spine ... ..		2	2
		Hip ... ..		...	...
		Pulmonary ... ..		15	29
		Skin ... ..		1	1
		Rickets ... ..		39	26
		Scoliosis ... ..		1	5

There were 30 boys and 28 girls suffering from other Diseases.

SUMMARY OF EYE TESTS. Results Expressed in Percentages

BOYS

Age last Birthday.	Number Examined	6		9		12		18		24		36		60		0	
		R.	L.	R.	L.	R.	L.	R.	L.	R.	L.	R.	L.	R.	L.	R.	L.
12	166	56	58.4	20.4	17.4	5.4	6	4.2	7.2	0.0	2.4	1.2	5.4	2.4		3.0	3
13	180	59.4	62.2	10.4	19.4	5.5	4.4	5	5.5	2.7	2.2	5.5	3.8	1.1		1.1	2.2
14	17	52.9	52.9	11.7	11.7	17.6	5.8	...	5.8	11.7	17.6	5.8				5.8	

GIRLS.

Age last Birthday.	Number Examined	6		9		12		18		24		36		60		0	
		R.	L.	R.	L.	R.	L.	R.	L.	R.	L.	R.	L.	R.	L.	R.	L.
12	180	59.6	61.2	13.9	14.5	9.1	6.0	5.9	4.8	5.3	5.9	2.0	2.0	1.6	2.1	1.6	1.6
13	178	55.6	56.1	22.4	18.5	5.6	8.4	5.6	9.5	4.1	3.9	2.8	2.2	1.6	1.1	1.6	
14	19	52.6	63.1	31.5	21	...	...	10.5	5.2		5.2	5.2				5.2	







